

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of reproducing, by a content reproducing device, content information stored on a recording medium, the method comprising:

reproducing a first stream of data read out from the recording medium in synchronization with a second stream of data received from a content providing server over a network based on a first command sent from the content reproducing device to the content providing server, the first stream of data comprising audio/video data and the second stream of data comprising content data associated with the first stream of data;

sensing a failure in receiving the second stream of data; and

upon sensing the failure, re-synchronizing the first stream of data with the second stream of data based on information for synchronization or re-synchronization included in the second stream of data, thereby simultaneously reproducing the first stream of data together with the second stream of data, the information including data rate information of the second stream of data and/or size information of the second stream of data.

2-3. (Canceled)

4. (Previously Presented) The method according to claim 1, wherein the information is contained within a header of the second stream of data.

5. (Previously Presented) The method according to claim 1, wherein the sensing step includes sensing whether the failure is due to a disconnection or a delay of transmission of the second stream of data over the network.

6. (Previously Presented) The method according to claim 1, further comprising: delaying a time for re-synchronization, wherein during the re-synchronization delay the first stream of data is reproduced, and the second stream of data is muted and not reproduced.

7. (Previously Presented) The method according to claim 1, further comprising: delaying a time for re-synchronization, wherein during the re-synchronization delay the first stream of data is reproduced, and an interpolated second stream of data is reproduced.

8. (Previously Presented) The method according to claim 1, further comprising: delaying a time for re-synchronization, wherein during the re-synchronization delay the first stream of data is reproduced, and a previous segment of the second stream of data is reproduced.

9-12. (Canceled)

13. (Previously Presented) The method according to claim 1, wherein said re-synchronization step includes:

calculating an offset value for the second stream of data to establish re-synchronization;

sending a second command requesting transmission of the second stream of data corresponding to the calculated offset value from the content producing device to the content providing server; and

re-synchronizing the second stream of data transmitted in response to the second command with the first stream of data read out from the recording medium.

14. (Previously Presented) The method according to claim 13, wherein said calculating step is based on a present playing time of the first stream of data and a number of bytes per second of the second stream of data.

15. (Previously Presented) The method according to claim 14, wherein the offset value is calculated by adding the present playing time of the first stream of data to a predetermined amount of time to produce a result and multiplying the result by the number of bytes per second of the second stream of data.

16. (Previously Presented) The method according to claim 15, wherein the predetermined amount of time proportional to a speed of the second stream of data being transferred over the network.

17. (Currently Amended) An apparatus for reproducing content information, comprising:

a renderer configured to reproduce a first stream of data read out from a recording medium in synchronization with a second stream of data received from a content providing server over a network based on a first command, the first stream of data comprising audio/video data and the second stream of data comprising content data associated with the first stream of data; and

a processor configured to sense a failure in receiving the second stream of data, and upon sensing the failure, re-synchronize the first stream of data with the second stream of data based on information for synchronization or re-synchronization included in the second stream of data, thereby simultaneously reproducing the first stream of data together with the second stream of data, the information including data rate information of the second stream of data and/or size information of the second stream of data.

18-19. (Canceled)

20. (Previously Presented) The apparatus according to claim 17, wherein the information is contained within a header of the second stream of data.

21. (Previously Presented) The apparatus according to claim 17, wherein the processor is configured to determine whether the failure is due to a disconnection or a delay of transmission of the second stream of data over the network.

22. (Previously Presented) The apparatus according to claim 17, wherein the processor is configured to delay a time for re-synchronization, and control such that the first stream of data is reproduced, and the second stream of data is muted and not reproduced, during the re-synchronization delay.

23. (Previously Presented) The apparatus according to claim 17, wherein the processor is configured to delay a time for re-synchronization, and control such that the first stream of data is reproduced, and an interpolated second stream of data is reproduced, during the re-synchronization delay.

24. (Previously Presented) The apparatus according to claim 17, wherein the processor is configured to delay a time for re-synchronization, and control such that the first stream of data is reproduced, and a previous segment of the second stream of data is reproduced, during the re-synchronization delay.

25-28. (Canceled)

29. (Previously Presented) The apparatus according to claim 17, wherein said processor is configured to re-synchronize the first stream of data and second stream of data by calculating an offset value for the second stream of data to establish re-synchronization; sending a second command requesting transmission of the second stream of data corresponding to the calculated offset value to the content providing server; and

re-synchronizing the second stream of data transmitted in response to the second command with the first stream of data read out from the recording medium.

30. (Previously Presented) The apparatus according to claim 29, wherein said processor is configured to use a present playing time of the first stream of data and a number of bytes per second of the second stream of data, when calculating the offset value.

31. (Previously Presented) The apparatus according to claim 30, wherein the offset value is calculated by said processor by adding the present playing time of the first stream of data to a predetermined amount of time to produce a result and multiplying the result by the number of bytes per second of the second stream of data.

32. (Previously Presented) The apparatus according to claim 31, wherein the predetermined amount of time is proportional to a speed of the second stream of data being transferred over the network.

33-38. (Canceled)

39. (Previously Presented) The method according to claim 1, wherein the step of reproducing comprises:

buffering the second stream of data prior to synchronization.

40. (Previously Presented) The apparatus according to claim 17, further comprising:
a buffer configured to buffer the second stream of data prior to synchronization.